SHEPELEV, M.V. (Leningrad, K-18, Pesochnaya ul., 24, kv.1)

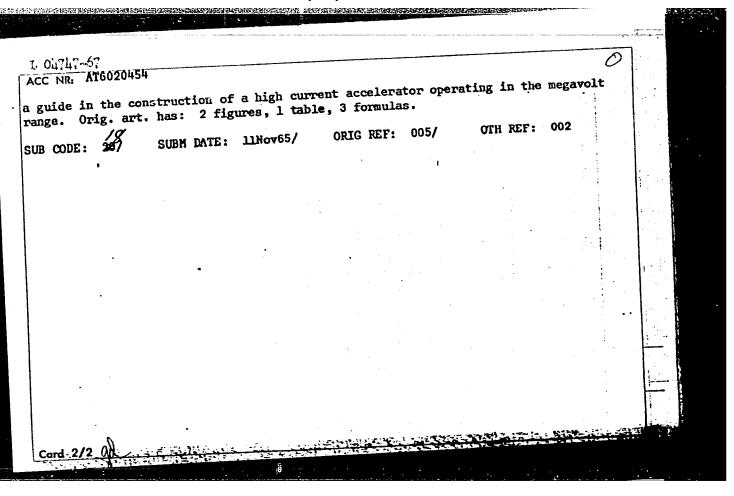
Vasoneural connections in the wall of the large intestine in

Vasoneural connections and in an experiment on animals. Arkh.

Vasoneural connections in the wall of the large intesting and in an experiment on animals. Arkh. liver cirrhosis in humans and in an experiment on animals. Arkh. (MINA 14:12) anat. gist. i embr. 41 no.10:55-60 0 161.

1. Kafedra normal'noy anatomii (nachal'nik - chlen-korrespondent AMN SSSR prof. B.A.Dolgo-Saburov [deceased]) Voyenno-meditsinskoy ordena Lenina akademii imeni S.M. (irova. (INTESTINES_INNERVATION)

UR/0000/65/000/000/0229/0234 EWT(1) L 04747-57 SOURCE CODE: ACC NR: AT6020454 AUTHOR: Pedenko, N. S.; Bolotin, L. I.; Faynberg, Ya. B.; Kharchenko, I. F.; Shepelev, 63 N. P. BH ORG: none TITLE: High current linear induction accelerator SOURCE: AN UkrSSR. Vzaimodeystviye puchkov zaryazhennykh chastits s plazmoy (Interaction of charged particle beams with plasma). Kiev, Naukova dumka, 1965, 229-234 TOPIC TAGS: plasma accelerator, plasma heating, betatron accelerator, Mev accelerator ABSTRACT: A method of generating powerful electron beams and the use of these beams to generate large amplitude electrostatic waves and to heat a plasma are described. The linear betatron constructed for this study consists of an electron source and an accelerating section formed by a power transformer with unity transformation coefficient. The outline of the design is given in a block diagram and its operation is discussed. An electric field of 6 kv/cm was achieved in the accelerating section. The total potential of 200 kv resulted in electron beam currents of 1000 A. The analysis of the design has shown that the most suitable source of energy is a series of capacity tors with spark-gap switching. This scheme eliminates synchronization problems and provides a desirable current pulse. The design reported here can basically serve as Card 1/2



ERICHKIN, A.V.; SHEPFELEV, S.F.

End-cut ventilation with forced air predischarge at the waste gas

End-cut ventilation with forced air predischarge at the waste gas

Izv.AN Lazakh.SSR.Ser.gor.dela,met.i stroimat. no.1:50-60 '52.

(MIRA 9:8)

(MIRA 9:8)

SHEFELEV, S.F., kandidat tekhnicheskikh nauk.

Pounder of the study of mine ventilation. Vest, AN Kazakh. SSR 11 no.7:
(MIRA 7:11)
23-26 Jl 154.
(Skochinskii, Aleksandr Aleksandrovich, 1874-) (Mine ventilation)

SOV/124-58-2-1998

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 2, p 70 (USSR)

AUTHOR: Shepelev, S.F.

On the Design Calculation of the Ventilation of Haulage Workings in TITLE:

Terms of the Dust Factor (O raschete provetrivaniya otkatochnykh

vyrabotok po pylevomu faktoru)

PERIODICAL: Izv. AN Kaz SSR, 1954, Nr 133. Ser. gornogo dela, metallurgii

i stroymaterialov, Nr 3, pp 55-65

The author presents the results of an experimental investigation at the Dzhekazgan mines of the dustiness level in haulage workings ABSTRACT:

during the pouring of the mined ore into the cars as a function of the ventilation-air flow rate. The dystiness level, characterized by the number of dust particles per cm, was measured by the particle count method by means of a dust-particle precipitator. The air flow rate is determined by means of a traverse of the air velocities over the cross section of the working. Tests have established that the decrease in the dustiness level with increasing air flow rate follows

a hyperbolic law. While the number of large (1 to 5 micron) dust

particles in the ventilation air increases, that of the small Card 1/2

SOV/124-58-2-1998

On the Design Calculation of the Ventilation of Haulage Workings (cont.)

(<1 micron) particles decreases. The author adduces considerations relative to the setting up of standard requirements for ventilation air in haulage workings in which ore is poured from a hatch into cars.

Card 2/2

SHEPELLEV.S.F., kandidat tekhnicheskikh nauk; TSOY, S., gornyy inzhener.

Effectiveness of ventilation in removing dust when boring in blind
(MIRA 9:5)
holes. Bor'ba s sil. 2:150-158 '55.

1. Institut gornogo dela Akademii nauk Kazakhskoy SSE (for TSoy)
(MIHE VENTILATION) (BORING) (DUST—REMOVAL)

SHEPSIMV S.F., kandidat tekhnicheskikh nauk; RADCHENKO,G.A., kandidat

Ventilation of mines as a radical method of combating mine dust.

Ventilation Mines as a radical method of combating mine dust.

(MIRA 9:1)

(Mine ventilation) (Mine dusts)

SOV/124-57-5-5423

Translation from: Referativnyy zhurnal. Mekhanika, 1957, Nr 5, p 46 (USSR)

Shepolev, S. F., Tsoy, S.

AUTHORS:

A Comparative Evaluation of the Analytical Formulae for Calculating Air Curtains (Sravnitel'naya otsenka analiticheskikh formul rascheta

vozdushnykh zaves)

PERIODICAL: Tr. In-ta gorn. dela AN KazSSR, 1956, Vol I, pp 133-139

ABSTRACT: A comparison is made of the respective results obtained when the curvilinear axis of an air curtain is calculated by the various theoretical and empirical formulae of a number of different authors. A method is demonstrated for calculating the quantity of outside air

that may be expected to penetrate into a given space shielded by an

air curtain. Bibliography: 9 references.

Card 1/1

TITLE:

Scrubber-fan. Trudy Inst. gor. dela AM Kazakh. SSR 1:179-182 '56.

(Mine ventilation) (Air--Purification) (MIRA 11:1)

SHEPPLEY, S.F., TSOY, S.

Portable mine gas detectors. Trudy Inst. gor. dela AN Kazakh. SSR 1:183-185 '56. (MIRA 11:1)

(Mine gases) (Gas detectors)

SHEPRIEV, S.F., TSOY, S.

Air shower as a means of protecting the miner from dust. Izv.

AN Kazakh.SSR.Ser.gor.dela, met. i stroimat. no,ll:334-117 '56.

(MIRA 10:1)

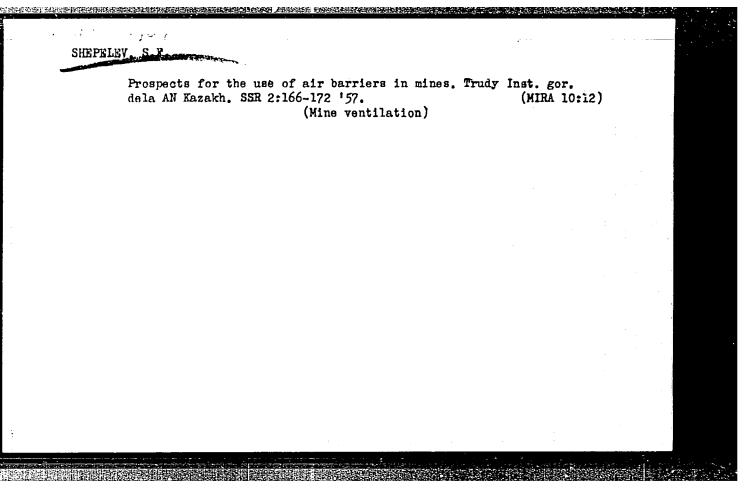
(Miners-Diseases and hygiene) (Mine dusts)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549220008-0"

SHEPELNY, Semen Fedorovich, RADCHENKO, Grigoriy Alekceyevich; KEKIN, A.A., kand dat tekhnicheskikh nauk, otvetstvennyy redaktor; BRAILOVSKAYA, H.Ya, redaktor; ROROKINA, Z.P., tekhnicheskiy redaktor.

[Establishment of standards for the flow of air in the ventilation of mines with a silicosis risk] Ustanovlenie nerm raskhoda vosdukha dlia provetrivaniia vyrabotok na silikozo-opasnykh rudnikakh. Alma-Ata, Izd-vo Akad.nauk Kazakhskoi SSR, 1957. 122 p. (MIRA 10:4) (Mine ventilation)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549220008-0"



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SOV/124-58-11-12408

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 11, p 65 (USSR)

AUTHORS: Shepelev, S.F., Tsoy, S.

TITLE: A Plane Air Sheet-jet in the Cross Section of a Mine (Ploskaya

vozdushnaya struya v poperechnom sechenii vyrabotki)

PERIODICAL: Tr. In-ta gorn. dela. AN KazSSR, 1958, Vol 3, pp 129-146

ABSTRACT: The paper quotes the results of the first stage of an investigation and evaluation of the efficiency and applicability of air curtains

from and evaluation of the effective and approximation and evaluation of the effective and approximation in underground mine workings. During the investigations made on models of mines the form of the axis, the profile of the field of the air velocities of the

stream, and the amount of ejected air were determined.

V. N. Gusev

Card 1/1

SHEPELEV, S.F.; TSOY, S.

Air stream flowing steadily from a crevasse into space limited in height by parallel planes. Trudy Inst. gor. dela AN Kazakh. SSR no.3:160-171 '98. (MIRA 11:6)

(Aerodynamic measurements)

TSOY, S.; SHEPELEV, S.F.

Regulating the distribution of air in mines by air curtains through the interaction of meeting air streams. Vest. AN Kazakh. SSR 14 no.8:56-66 Ag '58. (MIRA 11:10)

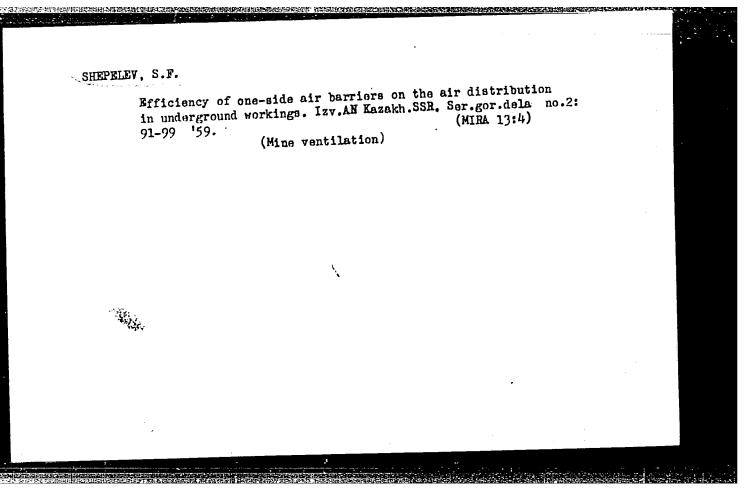
(Mine ventilation) (Air curtains)

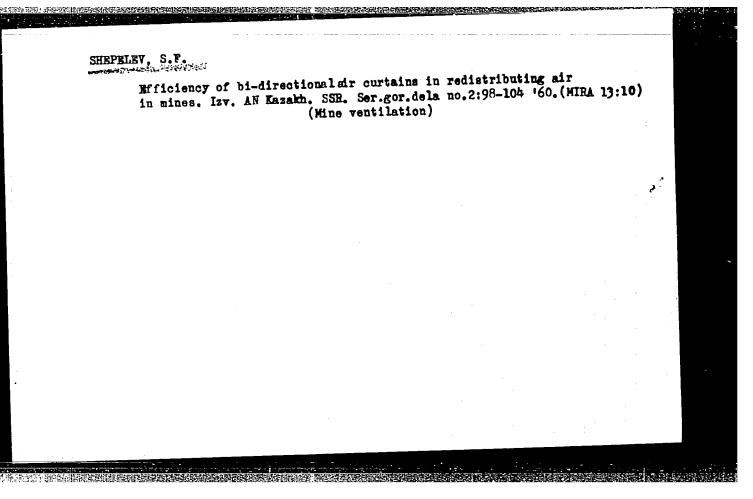
APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549220008-0"

SHEPELEV, S. F. and TSOY, S.

"Flat currents, etc.," in book Conference on applications of gas dynamics, "TR:D" series, Publishing Office of the Academy of Science of the Kazakh SSR, Alma-Ata, 1959.

2#	EPELEV, S.	F, -		3	
	pHACE I BOOK EXPLOITATION SOV/2271 pHACE I BOOK EXPLOITATION SOV/2271 phace of the Conference on Applied des Dynamics) Almaried on Applied des Dynamics) Almaried vo. Al Karakhakoy SSR, 1959. 235 p. Errata sixp Limerted. Al Karakhakoy SSR, 1959. 235 p. Errata sixp Limerted. Al Karakhakoy Saudaratvennyy universitet imeni S.M. ing Agency i Razakhakoy gentaries and B.P. V. Aleksandrivskiyl Tedh. Ed.: Z.P. Rorokinaj Editorial Boardi. V. Aleksandrivskiyl Tedh. Ed.: Z.P. Rorokinaj Editorial Boardi.	Distance. Distance of the series of the ser	of Nydro- and Asrodynands of the annual set in the Gross see Asset M.1. Kalinn in S. Tsoy. Two-disensional Jet in the Gross 108 Sheapslow S. P. and S. Tsoy. Two-disensional ting Machines for 115 Bespalow. V.d. Use of Hydrodynamic Calculating Machines for 115 Bespalow. Y.d. Use of Hydrodynamic Calculating Machines for 115 Bespalow. Y.d. the Disensations 122 Brist Summary of the Disensations Session of October 25, 1956 (morning)	Katspallson, B.D. Some Problems in the Aston Inst. Combustion Chambers and the Combustion of Cost Dust. Ustimentic. B.P. Asrodynamics of Twisted Jets and Cyclone 134 Chambers	

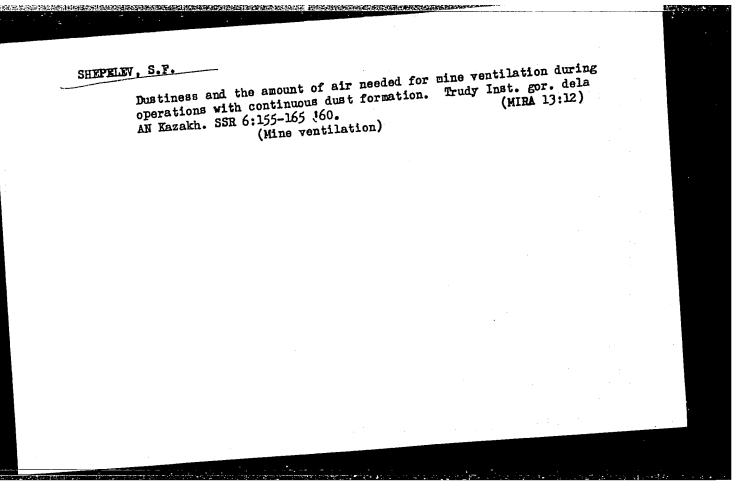


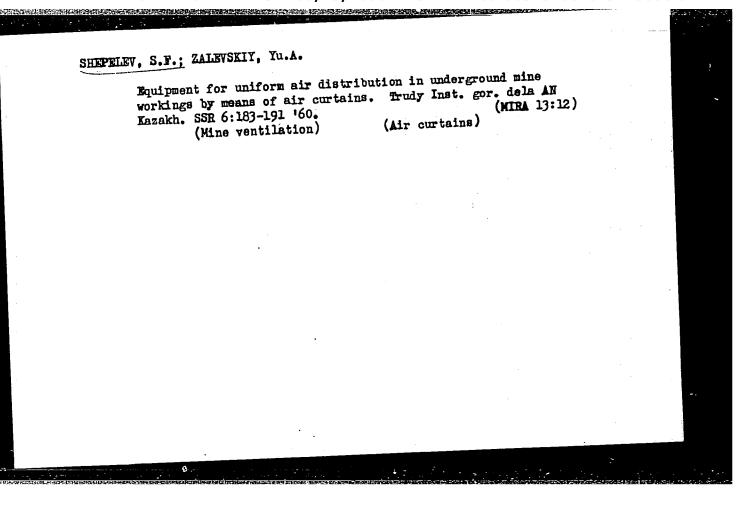


SHEPELEV, S.F., TSOY, S., ZALEVSKIY, Yu.A.

Air curtains as means of controlling air distribution on mines and methods to calculate them under the effect of countercurrents. Trudy Inst. gor. dela AN Kazakh. SSR 5:132-155 '60.

(Mine ventilation)





SHEPELEV, S.F., kand.tekhn.nauk; RADCHENKO, G.A., kand.tekhn.nauk

All-Union Conference on Mine Ventilation and Dust Removal.

All-Union SSR 16 no.9:92-93 S 160.

Vest.Kazakh.SSR 16 no.9:92-93 S 160.

(Mine ventilation--Congresses)

SHEPELEV. S..., ZALEVSKIY, Yu.A.; NESTERIN, V.G.

Calculation of round, free, turbulent jets moving in limited areas of chamber type workings. Izv.AN Kazakh.SSR.Ser.gor.dela no.2:100-106 (MIRA 15:2)

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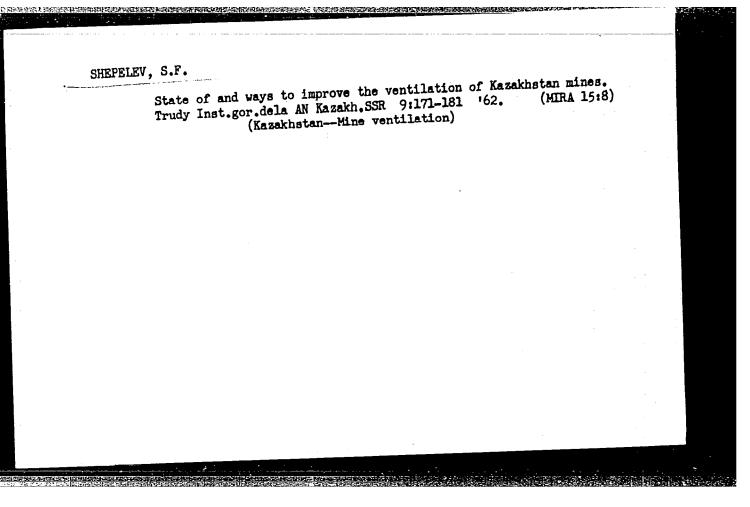
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SHEPELEV, S.F. Comparative evaluation of the performance of one-way and two-way curtains in redistributing air in underground workings. Trudy Inst.gor.dela AN Kazakh.SSR 8:130-136 161. (MIRA 15:4)

(Mine ventilation)

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SHEPELEV, S.F.	the mouths	of	
Use of air screens to control leaks of air through to baring workings. Trudy Inst.gor.dela AN Kazakh.SSR	8:164-17 (MIRA	(2 61. (15:4)	
(Mine ventilation)			
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DZHAKUPBAYEV, A.N.; SHEPELEV, S.F.; SELIVANOV, G.I.

Gas condition in workings of the Tekeli Mine in the case of a developed endogenic underground fire. Trudy Inst.gor.dela AN Kazakh.SSR 9:188-197 '62. (MIRA 15:8) (Tekeli region (Kazakhstan)—Mine fires)

SHEPELEV, S.F.; ZALEVSKIY, Yu.A.

Using air curtains to create ventilation in chamber-shaped workings. Trudy Inst. gor. dela AN Kazakh. SSSR 10:168-180 '63. (MIRA 16:8)

(Mine ventilation)

SHEPELEV, S.F.; ZALEVEFIY, Yu.A.

Structure of a circular, free, turbulent flow acting in chamberlike workings. Trudy Inst. gor. dela AN Kezakh.SSR 12: 130-142 163.

ABKIN, A.A., Sherelev, S.F.; BRAGIN, N.G.

Genteeling dust in the mining industry of Kazakhstan. Trudy Inst.
6 T.dela AN Kazakh. SSR 15:3-10 1/2. (MIRA 18:2)

SHEPELEV, S.F.; ZALEVSKIY, Yu.A. [deceased]

Calculation of a conical air duct made of a longitudinal slct of uniform cross section with even consumption and rate of air flcw. Trudy Inst.gor.dela AN Kazakh.SSR 15:67-69 164.

(MIRA 18:2)

SHEPELEV, S.F.

Classification of the means of regulating the quantity of air in underground workings. Trudy Inst.gor.dela AN Kazakh.SSR 15:17-19
164. (MIRA 18:2)

USSR/Forestry Forest Economy.

K-4

Abs Jour

: Ref Zhur - Biol., No 3, 1958, 10585

Author

: Shepelev, S.I.

Inst

Title

In the Vladivostok Forest Economy.

Orig Pub

: Lesn. kh-vo, 1957, No 2, 61-67

Abstract

: A short account is given of the organization of the forest economy on the territory near the city of Vladivostok, which culminated in the creation (1947) of the Vladivostok Forest Economy with five forest areas. The activity of the forest economy is described, and the success of the measures taken to create forests on unforested areas is pointed out.

Card 1/1

SHEPELEV, S.N.

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549220008-0 Redesign of heating furnaces with hearths on wheels. Kuz,-shtam. proizv. 3 no.7:33-35 Jl '61. (MIRA 14:6) (Furnace, Heating)

LEVCHENKO, I., inzh.; SHEPELEV, V., inzh.

Shortening the building time for thermal electric plants. Prom.stroi. i inzh.soor. 3 no.2:7-12 Mr-Ap '61. (MIRA 15:3)
(Electric power plants)

SHEPELEV, V.

Waterside pumping divisions of thermal electric plants made of precast reinforced concrete. Prom.stroi.i inzh.soor. 4 no.1: 47-51 Ja-F 162. (MIRA 15:8)

1. Zamestitel' glavnogo inzhenera tresta "Donbassenergostroy". (Electric power plants) (Precast concrete construction)

ACC NR: A	EWI(m)/EMP(j)/T IJP(c) RM	
<u>.</u> -	22002 2021 01/01/07/07/00/00/1/10Aff/19A9	
	Maklakov, A. I.; Pimenov, G. G.; Shepelev, V. I.	
ORG: Kaza	n State University (Kazanskiy gosudarstvennyy universitet)	
O. J. BORTTIII	aluation of the mobility of macromolecules in amorphous regions of polymers by nuclear magnetic resonance (sokomolekulyarnyye soyedineniya, v. 7, no. 11, 1965, 1894-1898	
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TOPIC TAGS polymer ABSTRACT:	macromolecular chemistry, nuclear magnetic resonance, crystalline	
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TOPIC TAGS polymer ABSTRACT:	macromolecular chemistry, nuclear magnetic resonance, crystalline NMR spectra of polyethyleneterephthalate, isotactic polystyrene, and aromatic polyamids with monomeric units	

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were studied at 20-3500 by using a scheme described by A. I. Maklakov and G. G. Pimenov (Dokl. AN SSSR, 157, 1413, 1964). It was shown that the temperature T_n of appearance of the narrow component in the complicated NMR signal of the above polymers may serve as a measure of the mobility of the macromolecules in their amorphous areas. The T_n of 25 samples has been determined. The relationship between the structure of the polymer and T_n is discussed. "The authors express their gratitude to R. S. Balakirev, G. A. Kuznetsov, and L. B. Sokolov for supplying a number of samples." Orig. art. has: 1 table and 2 figures.

SUB CODE: 07/ SUBM DATE: 07Dec64/ ORIG REF: 008/ OTH REF: 009

Card 2/2

SHEPELEV, V.I.; MAKLAKOV, A.I.

Nuclear magnetic resonance in polyphenylenimine. Zhur. strukt. khim. 6 no.2:298-299 Mr-Ap '65. (MIRA 18:7)

1. Kazanskiy gosudarstvennyy universitet.

SHAPLARY OF INC

137-58-3-5241

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 3, p 112 (USSR)

AUTHOR: Shepelev, V. N.

TITLE: Welding of Rails in Railroad Stations (Svarka rel'sov na stant-

sionnykh putyakh)

PERIODICAL: Put' i putevoye kh-vo, 1957, Nr 9, pp 31-32

ABSTRACT: The author describes a simple, mold-type, rail welding

method requiring no special equipment or hard-to-get materials; the method was proposed by an experimental welding shop and proved to be most effective for in-place welding of rails in switchyards and storage yards in sections up to 75-100 m long. The method of preparing the rail heads to be welded is described together with the procedure for the positioning of rails, prior to welding, so as to form a 14-16 mm gap between them, at the same time causing them to have a percent-slope on either side of the junction. A metal shim is placed at the base of the butt, and half-sectional Cu molds are installed in order to prevent flowing of metal and to impart the required shape to the surface of the weld. Also described is the execution of the arc welding process with subsequent filling

Card 1/2

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86

3/2000 CIA-RDP86-00513R001549220008-0

SHEPSLEV, V.N., inzh.

Welding rail fastenings. Put' i put. khoz. no.3:29-31 Mr '58.

(Railroads--Rails--Fastenings)

(Welding)

8(3) SOV/112-59-4-6820

Translation from: Referativnyy zhurnal. Elektrotekhnika, 1959, Nr 4, p 59 (USSR)

AUTHOR: Shepeley, V. N.

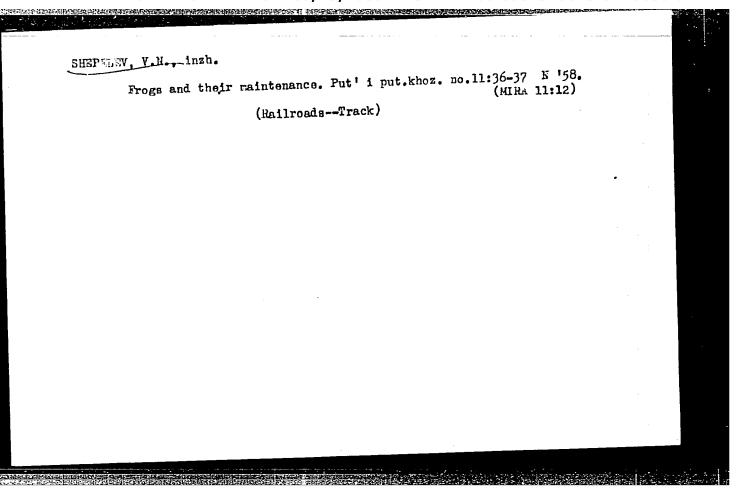
TITLE: How Electric-Station Outages Can Be Prevented

PERIODICAL: Put' i putevoye khozyaystvo, 1958, Nr 6, pp 32-33

ABSTRACT: Methods of repairing ZhES-2, ZhES-4, and ZhES-9 mobile electric stations, adopted on the Zabaykal'skaya and Donetskaya railroads, are

reported; selenium rectifiers are repaired.

Card 1/1



SHEPELEY, Vasiliy Nikolayevich; OBUKHOY, Aleksendr Vasiliyevich; BERESTOYOY, Ye.I., inzh., retsenzent; ABRAGAM, S.R., inzh., red.; BOBROVA, Ye.N., tekhn.red.

[Welding and building-up of rails and railroad frogs] Svarka i naplavka rel'sov i krestovin. Moskva, Gos.transp.zhel-dor. izd-vo, 1959. 179 p. (MIRA 13:2)

(Railroads--Rails--Welding)
(Railroads--Maintenance and repair)

SHEPELEV, V.V., ingh.; SHEPELEV, V.N., ingh.

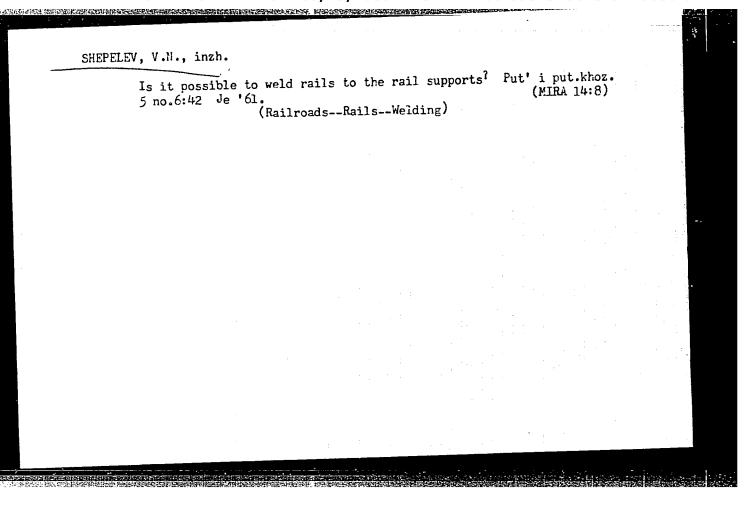
Improving rail grinding. Put' 1 put.khoz. no.11:29-30
N '59. (Railroads—Rails)

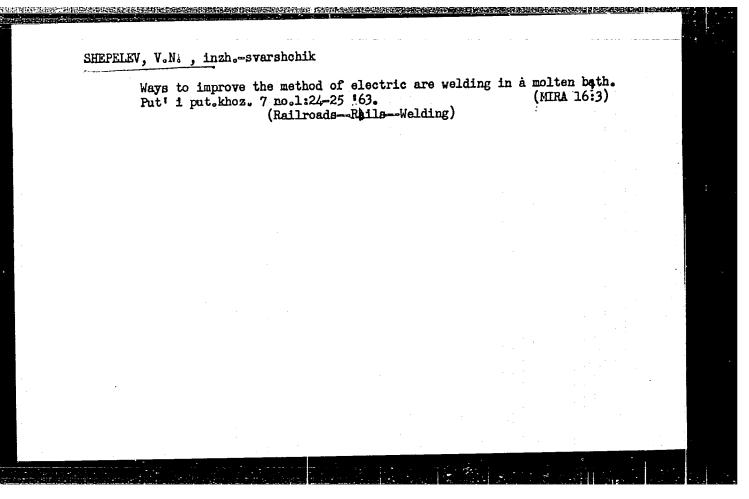
(Railroads—Rails)

SHEPELEY, V.N., inzh.

Advice for welders and grinders. Put' i put.khoz. 4 no.9:26=27 S '60. (MIRA 13:9)

(Railroads--Rails--Welding)



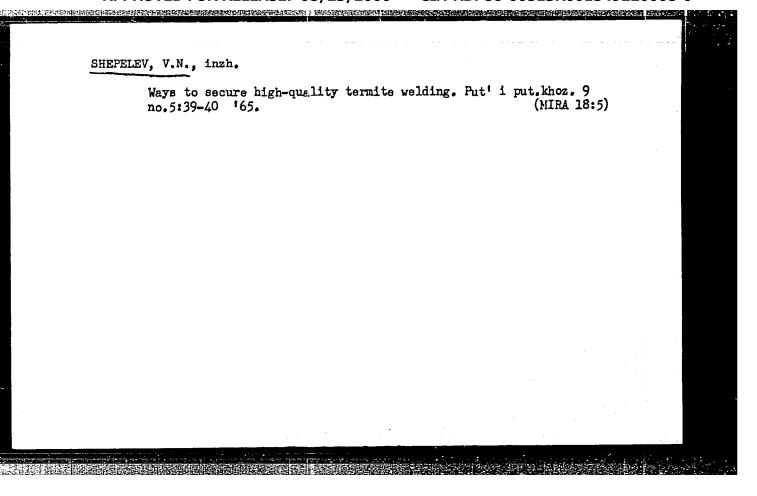


SHEPELEV, V.N., inzh.

How to prepare the refractory mass for thermite welding. Put' i put.khoz.
7 no.4:43-45 '63.
(Rafractory materials)
(Railroads—Rails—Welding)

SHEPELEV, V.N., inzh.

Method for the transportation and storage of thermit. Put' i put.
khoz. 8 no.4:44 '64. (MIRA 17:4)



SHEPHLEY, Vasiliy Mefod yevich; KRASNIK, Mikhail Ivanovich; KODABASHEVA, R.S., inzh., red.

[Manufacture and assembly of prestressed concrete cross bars and slabs for bunkers] Izgotovlenie i montazh predvaritel'no napriazhennykh zhelezobetonnykh rigelei i plit bunkerov; opyt tresta "Donbassenergostroi." Moskva, Gos.izd-vo lit-ry po stroit., arkbit. i stroit.materialam, 1961. 30 p.

(MIRA 14:12)

1. Akademiya stroitel'stva i arkhitektury SSSR. Institut organizatsii, mekhanizatsii i tekhnicheskoy pomoshchi stroitel'stvu.

Byuro tekhnicheskoy informatsii. 2. Zamestitel' glavnogo inzhenera tresta "Donbassenergostroy" (for Shepelev). 3. Glavnyy inzh. Staro-Beshevskogo zavoda "Stroydetal'" (for Krasnik).

(Electric power plants--Equipment and supplies)

(Precast concrete construction)

PILIPENKO, V.I., inzh,; SHEPELEV, V.M., inzh.

Built-up (no-attic) roofs made of mesh-reinforced fly-ash foamed concrete. Energ. stroi. no.22:55-59 '61. (MIRA 15:7)

1. Kurakhovskiy zavod stroymaterialov (for Pilipenko). 2. Trest "Donbassenergostroy" (for Shepelev).

(Roofing, Concrete) (Lightweight concrete)

PILIPENKO, V.I., inzh.; SHEPELEV, V.M., inzh.

Protection of the reinforced of fly-ash foamed concrete articles from corrosion. Energ. stroi. no.22:95-98 '61. (NTRA 15:7)

1. Kurakhovskiy zavod stroymaterialov (for Pilipenko). 2. Trest "Donbassenergostroy" (for Shepelev). (Concrete reinforcement) (Protective coatings)

BERENSHTEYN, S.A.; VAYSLEYB, V.P.; VARENIK, I.F.; DOBRYNCHENKO, M.V.; YEGOROV, B.P.; KLISENKO, Yu.F.; MOGILEVSKIY, I.I.[deceased]; PEREYASLAVTSEV, N.A.; PILIPENKO, V.I.; SAPOZHNIKOV, F.V., inzh.; SHEPELEV, V.M.; SHMULEVICH, M.L.; YARMOLINSKIY, I.M.; SHAGALOV, Ye.S., red.; KORIKOVSKIY, I.K., red.; LARIONOV, G.Ye., tekhn. red.

[Construction of the V.I.Lenin State Regional Electric Power Plant in Simferopol] Opyt stroitel'stva Simferopol'skoi GRES im. V.I.Lenina [By] S.A.Berenshtein i dr. Moskva, Gosenergoizdat, (MIRA 15:6)

(Simferopol--Electric power plants)

PILIPENKO, Viktor Ivanovich; SHEPELEV, Vasiliy Mefedovich; FINKINSHTEYN, B.A., inzh., red.

[Reinforced foamed ash concrete panels for exterior walls of the State Regional Electric Power Plant; practices of the Kurakhov Plant for Reinforced Concrete Elements of the "Donets Basin Power Plant Construction" Trust] Armopenozolobetonnye paneli dlia naruzhnykh sten CRES; opyt Kurakhovskogo zavoda zhelezobetonnykh konstruktsii tresta "Donbassenergestroi." Noskva, Gosstroiizdat, 1963. 15 p. (MIRA 17:9)

1. Moscow. Nauchno-issledovatel'skiy institut organizatsii, mekhanizatsii i tekhnicheskoy pomoshchi stroitel'stvu.
2. Glavnyy inzhener Kurakhovskogo zavoda zhelezobetonnykh konstruktsiy (for Pilipenko). 3. Zamestitel' glavnogo inzhenera tresta "Donbassenergostroy" (for Shepelev).

PILIPENKO, V.I., inzh.; SHEPELEV, V.M., inzh.

Manufacture of large reinforced concrete structures for the State Regional Electric Power Plant No.2400. Energ. stroi. no.34:6-12 '63. (MIRA 17:1)

- 1. Kurakhovskiy zavod zhelezobetonnykh konstruktsiy (for Pilipenko).
- 2. Trest "Donbassenergostroy" (for Shepelev).

SHKUTINA, F.M.; SHEPELEV, V.M.; KHVOSTOVA, V.V.

Study of fertility and the characteristics of meiosis in wheatrye amphidiploids. Biul. MOIP. Otd. biol. 69 no.1:20-27 Ja-F '64. (MIRA 17:4)

LEVSHENKO, I.F., inzh.; SHEPELEV, V.M., inzh.

Thermal treatment of the anchorage rods of tendons of prestressed

concrete construction elements. Bet. i zhel.-bet no.8:376-377
Ag 160. (MIRA 13:8)

(Prestressed concrete)

Influence of a tourniquet on the toxicity of muscle extracts.

Influence of a tourniquet on the toxicity of muscle extracts.

Uch.zap. 2-go McMI 17:87-95 '58.

1. Zaveduyushchiy kafedroy biokhimii 2-go Moskovskogo gosudarstvennogo meditsinekogo instituta imeni N.I. Pirogova (for Kushko).

Vennogo meditsinekogo instituta imeni N.I. Pirogova (for Kushko).

(BLOOD--GIRCULATION, DISCRUERS OF) (TISSUE KUTRACTS)

(MUSCLE)

(MUSCLE)

22717-66 ETT(d)/EVP(1) LJP(c) BP/GG

ACC NR: AP6002937

SOURCE CODE: UR/0286/65/000/024/0104/0104

AUTHORS: Alferov, A. V.; Vashchenko, V. P.; Glushkov, N. P.; Shepelev, V. R.

ORG: none

TITLE: A device for the automatic verification of angle-code converters. Class 42, No. 177165.

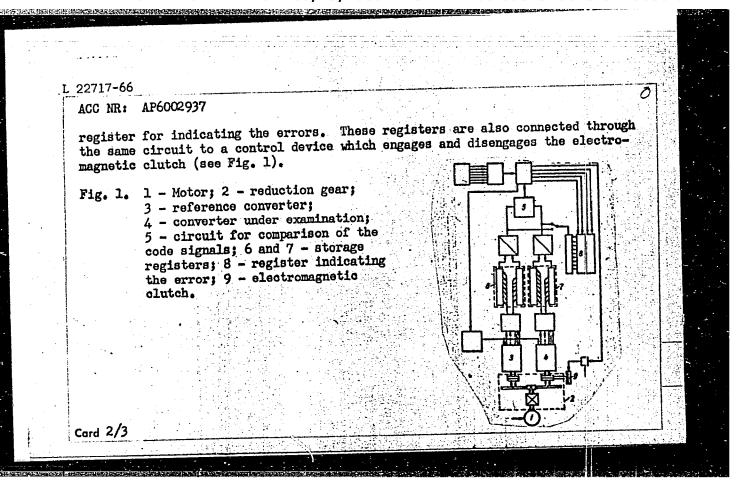
SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 24, 1965, 104

TOPIC TAGS: code converter, code evaluation, error automatic data correlation, error detection code

ABSTRACT: This Author Certificate presents a device for the automatic verification of angle-code converters. The device includes a reference converter and the converter under examination, both of which are rotated by a single motor through a reduction drive. The device also includes a circuit for comparison of the code signals. This device provides simultaneous verification of all code paths and automates the process of initially setting the converters. The registers which store the codes of the reference converter and the converter under examination are connected through a circuit of discharge comparison of the codes to the

Card 1/3

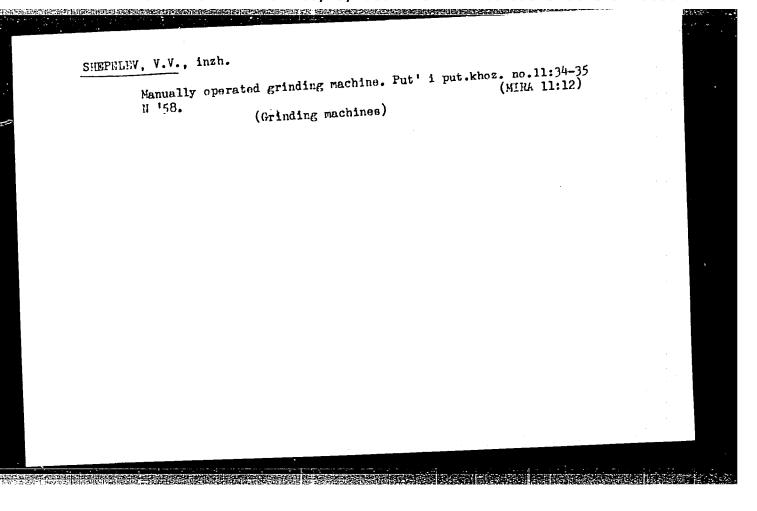
UDC: 681.142-523.8.001.57



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AGC NR: AP6002937				ę.
The clutch engages at t	the moment of coincerter under examina	idence of the codes o tion. Orig. art. has	f the reference 1 1 figure.	
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Card 3/3 UV				
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SHEPELEV, V.V., inzh.; SHEPELEV, V.N., inzh.

Improving rail grinding. Put' i put.khoz. no.ll:29-30
(MIRA 13:4)
N '59. (Railroads--Rails)



SHEFFELEV, Ye., polkovnik meditsinskoy sluzhby

Ecological system in space flight. Av. i kosm. 45 no.1:20-25
(MIRA 16:1)

Ja '63.

(Life support systems(Space environment))

TEPERMAN, Ye. Ta.; SHEPFLEV, Ye.C., otvetstvennyy redaktor; SVIRIDOVA, F.A., redaktor; NADELINGATA, A.A., tekhnicheskiy redaktor.

[Pumps in coal preparation plants] Masoay na ugleobogatitel'nykh fabrikakh. Moskva, Ugletekhizdat, 1954. 133 p.

(Goal preparation) (Fumping machinery)

26466

27.2400

S/177/60/000/009/001/001

D219/D303

AUTHORS:

Dorodnitsyna, A.A., Candidate of Biological Sciences, Savinich, F.K., Talapin, V.F., Lieutenant-Colonel, Medical Services, Shepelev, Ye. Ya., Lieutenant-Colenel, Medical Services

TITLE:

Endurance of high temperatures by humans and the

importance of heat-protecting clothes

Voyenno-meditsinskiy zhurnal, no. 9, 1960, 72 - 74 PERIODICAL:

TEXT: The present work is a continuation of earlier investigations (Ref. 1: Voyenno-Meditsinskiy Zhurnal, No. 8, 56 - 58, 1958), and compares the influence of normal and semi-seasonal clothing of pilots at temperatures of 70, 80, 90, 100, 110, 1200C. The experiments were carried out in a heat chamber where the air was rarified to correspond to an altitude of 8000 meters. The subjects wore cotton underclothes under a high-altitude compensating dress. The outer clothing in one group consisted of cot-

Card 1/ 3

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26466 S/177/60/000/009/001/001 D219/D303

Endurance of high temperatures...

ton flight dress, and in the other group of wadded semi-seasonal flight dress. Wool socks and leather boots were worn on the flight dress. Wool socks and leather boots were covered legs, at temperatures higher than 100°C the hands were covered by wool gloves. In all 90 experiments were carried out. Heart rate increased by about 40 - 60, systolic arterial pressure increased by 25 - 30 mm, diastolic pressure decreased by 34 mm, resulting in a considerable increase of pulse pressure. Body resulting in a considerable increase of pulse pressure, brown a number of temperature had risen by 1.6 - 2.3 °C, reaching in a number of temperature had risen by 1.6 - 2.3 °C, reaching in a state of the subjects was characterized by a marked hyperthemia, approaching heat stroke, marked disturbance of the cardiovascular system and of the water balance of the organism. The total water loss of the organism, the quantity of evaporated water and water loss of the organism, the quantity of evaporated water and the amount absorbed by the clothing was determined by weighing. The authors state that the endurance of high temperatures is basically related to the endurance of the heat accumulated in the organism. The limiting endurable amount of heat accumulated

Card 2/3

26466 S/177/60/000/009/001/001 D219/D303

Endurance of high temperatures...

is constant within the range of temperatures investigated and it is 63±10 kilocalories per square meter of the body surface. The sooner this limiting value is reached the shorter the time duration endurable at high temperatures. The experiments show that ation endurable at high temperatures. The experiments show that the speed of heat accumulation in the organism is lower with the semi-seasonal dress. It appears that the external heat load operating on the organism is in the average 25% lower with the semi-seasonal dress. Water losses through evaporation, heat transmission and accumulation of water in the clothing were also lower with this types of dress. Reduced sweating is a direct consequence of the lower external heat loading. Although the heat transmission is reduced by 15%, evaporation takes place heat transmission is reduced by 15%, evaporation in the clothmore effectively because of the smaller absorption in the clothing. The average time endured at high temperatures in the two kinds of clothing are shown in tabulated form. There are 4 tables and 1 Soviet-bloc reference.

SUBMITTED: May, 1959

Card 3/3

DORODNITSYNA, A.A. (Moskva); SHEPELEV, Ye.Ya. (Moskva)

Heat exchange in man during the exposure to high temperatures.

Fiziol. zhur. 46 no. 5:607-612 My '60.

(HEAT—PHYSIOLOGICAL EFFECT)

(BODY TEMPERATURE)

(BODY TEMPERATURE)

s/865/62/001/000/015/033 L028/E185 Antipov, V.V., Bayevskiy, R.M., Gazenko, O.G., Genin, A.M., Gyurdzhian, A.A., Zhukov-Verezhnikov, N.N., Zhuravlev, B.A., Karpova, L.I., Parfenov, G.P., Seryapin, A.D., Shepelev, Ye.Ya., Yazdovskiy, V.I. AUTHORS: Some results of medical and biological investigations in the second and third satellites TITLE: Problemy kosmicheskiy biologii. v.l. Ed. by N.M. Sisakyan. Moscow, Tzd-vo AN SSSR, 1962. 267-284 The maintenance of life conditions is discussed with SOURCE: special reference to the second Soviet satellite. During the special reference to the second Soviet satellite. During the second be flight the proportion of oxygen in the air of the cabin could be maintained at 21 to 24%, whereas the relative humidity rose from the temperature ranged from 16 to 19°C. Water and 37 to 47%. The temperature ranged from 16 to 19°C. food were provided together in a mixture solidified with agar, in order to facilitate automatic dispensing in conditions of weightorder to facilitate automatic dispensing in conditions of weightlessness. This was carried out twice daily by command signals

The marking recording of the physiclegical parameter. Telemetric recording of the physiological parameters of the dogs Belka and Strelka during space flight showed the Card 1/2

s/865/62/001/000/015/033 E028/E185 Some results of medical ... occurrence of tachycardia as a result of acceleration, noise and vibration; there was also a rise in the respiration rate: a return to normal pre-flight values occurred during the condition of weightlessness. Movements of the animals were observed by television cameras and also by potentiometric sensors mounted in the harness. No abnormalities were observed in the behavior of the animals after return to earth or during the following 3 months. It was concluded from the experiments carried out in the second satellite that dogs could readily be accustomed to space flight conditions. Genetic changes were noted in the progeny of actinomycetes, plant seeds and fruit flies after return from space flight. The third space satellite contained two dogs (Pchelka and hushka), two guineapigs, two rats, twenty six mice, fruit flies, seeds and other biological materials which were included in order to study the effects of cosmic radiation. The results are not described. Card 2/2

GENIN, A. M.; SHEPELEV, Ye. Ya.

"Some problems and principles in formation of the environment on the basis of circulation of matter."

report submitted for 15th Intl Astronautical Cong, Warsaw, 7-12 Sep 64.

ACCESSION NR: AT4037690

s/2865/64/003/000/0204/0209

AUTHOR: Korotayev, M. M.; Kustov, V.V.; Meleshko, G. I.; Poddubnaya, L. T.; Shepelev, Ye. Ya.

TITLE: Toxic gaseous substances liberated by oblorella

SOURCE: AN SSSR. Otdeleniye biologicheskikh nauk. Problemy* kosmicheskoy biologii, v. 3, 1964, 204-209

TOPIC TAGS: algae, respiration, toxicology, photosynthesis, carbon monoxide, closed ecological system, manned space flight, air purification

ABSTRACT: The liberation of toxic gaseous substances in the process of vital photosynthetic activity of Chlorella pyrenoidosa S-39 was studied in six experiments lasting 2 to 12 days and in eight experiments lasting 7 to 26 hr. It has been established that during cultivation of Chlorella the air of the system accumulates carbon monoxide, nitrogen oxides, hydrocarbons, and, perhaps, methane. Carbon monoxide concentration in different experiments ranged from 0.003 to 0.09 cm/l. In most cases the amounts of carbon monoxide produced exceeded permissible limits. The content of nitrogen oxides in the same system ranged from 0.0006 to

Card 1/2

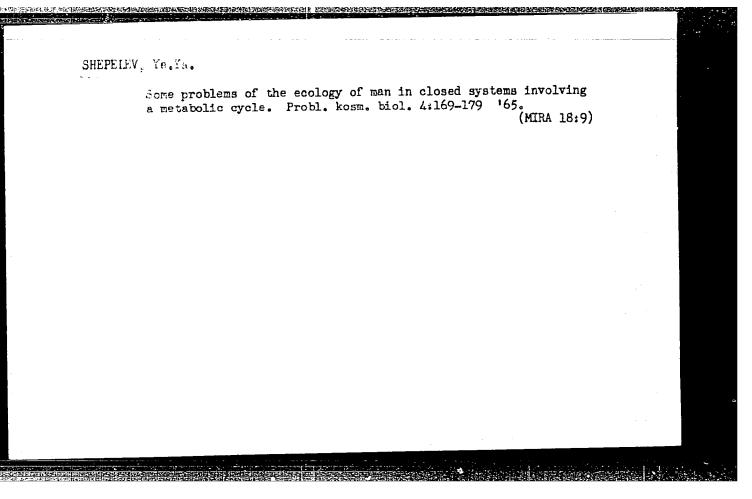
ACCESSION NR: AT4037690

0.012 mg/l and that of hydrocarbons from 0.0033 to 0.061 mg/l. The production of carbon monoxide in the algae culture is apparently due to the oxidative breakdown of the tetrapyrrol radical of the chlorophyll molecule. To develop systems of purification of regenerated air by biological means, further study of the mechanisms of formation and dynamics of accumulation of toxic substances during prolonged and continuous cultivation of algae in a closed system will be required.

ASSOCIATION: none

SUBNITTED: 00 ENCL: 00 SUB CODE: PH; LS

NO REF SOV: 003 OTHER: CO8



DD/RD: L 24359-66 SCTB EWI(1)SOURCE CODE: UR/2865/65/004/000/0169/0179 ACC NR: AT6003851 32 Shepelev, Ye. Ya. AUTHOR: BHI ORG: Department of Biological Sciences, Academy of Sciences USSR (AN SSSR. Otdeleniye biologicheskikh nauk) TITLE: Certain life support problems of man in a closed ecology system SOURCE: AN SSSR. Otdeleniye biologicheskikh neuk. Problemy kosmicheskoy biologii, v. 4, 1965, 169-179 TOPIC TAGS: bioastronautics, life support system, astrobiology ABBIRACT: The most promising solution for reducing vital supplies (oxygen, water, and food) to a minimum in spaceships is the development of a life support system in which all life activity products are transformed by other live organisms into their original form. The first stage in such a transformation is the decomposition of organic compounds to their mineral substances as used by plants. However, the activity of plants used for regeneration of atmosphere is not limited to carbon dioxide intake and giving off of oxygen in a confined space. Studies show that unicellular algae and higher plants may be unsuitable for regeneration of atmosphere because at different stages of development Card 1/2

L 2h359-66

ACC NR: AT6003851

they also give off volatile substances -- aromatic oils, various hydrocarbons and others and may include carbon monxide. Recycling of water and food is also a complex problem. A broad ecological approach in developing a biologically acceptable life support system leads to a number of vital factors which bave never been investigated from a health point of view: intensity and composition of solar radiation, gravitational force, and duration of diurnal rhythms. Orig. art. has: none.

SUB CODE: 06/ SUBM DATE: none/ ORIG REF: 008/ OTH REF: 016

B

L 11/128-65 EWT(1)/EWG(k)/EWT(m)/EPA(sp)-2/EPF(n)-2/EPR/EPA(w)-2/EEC(t)/T/EWA/EWP(b) Pz-6/Pab-10/Ps-1/Pu-1/11JP(c) AT/JD/JG
ACCESSION NR: AP4048401 S/0181/64/006/011/3279/3287

AUTHORS: Savinov, Ye. P.; Lukirskiy, A. P.; Shepelev, Yu. F.

TITLE: Concerning the external photoeffect of metallic photocathodes for radiation with wavelength 23.6--113 Angstrom

SOURCE: Fizika tverdogo tela, v. 6, no. 11, 1964, 3279-3287

TOPIC TAGS: x ray irradiation, photoeffect, secondary electron, angular distribution, aluminum, gold

ABSTRACT: The x-ray photoeffect was investigated in the ultrasoft region of the spectrum with an aim at determining the dependence of the quantum yield on the angle of incidence of the radiation on the photocathode, and at measuring the quantum yields of various substances. The monochromatic K lines of O, N. C, B, and Be and photocathodes of Al and Au were used. The procedure used to determine

Card 1/3

L 11428-65 ACCESSION NR: AP4048401

the absolute quantum yields was similar to that described by the authors elsewhere (Opt. is spektr. v. 9, 505, 1960), but using an improved proportional counter and a more careful choice of the supply voltage for the secondary electron multiplier. The monochromator employed was also similar to one previously used (Opt. i spektr. v. 13, 846, 1962). The experiments have shown that to describe the xray photoeffect it is essential to take account of the refraction of the beam in the photocathode, especially at small incidence angles, when reflection takes place. For ultrasoft x-rays, the electron flux attenuates exponentially almost in all cases, except at very small angles incidence, when the deviation from the exponential attenuation can be used to estimate the thickness of the layer from which electrons can be emitted without attenuation. These data agree well with those of H. Kanter and E. J. Sternglass (Phys. Rev. v. 126, 620, 1962). The formula derived for the quantum yield also agrees with the experimental results. Orig. art. has: 8 figures, 4 formulas, and 2 tables.

Card 2/3

L 11428-65
ACCESSION NR: AP4048401

ASSOCIATION: Leningradskiy gosudarstvenny*y universitet (Leningrad State University)

SUBMITTED: 22May64

SUB CODE: OP, SS NR REF SOV: 009 OTHER: 005

Cord 3/3

ACCESSION NR: AP4020935

\$/0051/64/016/002/0310/0319

AUTHOR: Lukirskiy, A.P.; Savinov, Ye.P.; Yershov, O.A.; Shepelev, Yu.F.

TITLE: Reflection coefficients for radiation with wavelengths of 23.6 to 113 Angstrom for a number of elements and substitutes and determination of the refraction indices and absorption coefficients

SOURCE: Optika i spektroskopiya, v.16, no.2, 1964,/310-319

TOPIC TAGS: reflection coefficient, absorption coefficient, titanium, beryllium, carbon, aluminum, chromium, gold, silver, germanium, lithium fluoride, magnesium fluoride, strontium fluoride, potassium chloride, polystyrene

ASETRACT: In view of the interest in reflection of ultrasoft x-radiation from different substances that can be used for coating diffraction gratings and other optical components, in the present study there were determined experimentally the values of the total external reflection coefficient R of Be,C,Al,Ti,Cr,Ge,Ag,Au,LiF, MgF2,KCl,SrF2, polystyrene and F-1 type glass as a function of the angle of incidence (mostly glancing angles in the range under 10°) for radiation of wavelengths 23.6, 31.4, 44, 67 and 112 Å. These are the wavelengths of the KX lines of O,N,C,B

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ACCESSION NR: AP4020935

and Be. The measurements were carried out using a modification of the setup and procedure employed earlier (A.P.Lukirskiy and Yc.P.Savinov, Opt.i spektr., 14,295,1963). The materials for the most part were in the form of 1000 A thick coatings vacuum evaporated onto glass plates; the halide layers were deposited over undercoatings of Al or Au on glass, mainly to provide the requisite conductivity for subsequent absorption measurements. The results for R are presented in the form of curves (R versus angle of incidence) and in a table. The reflection curves were then used for calculating the index of refraction and the absorption coefficient by means of the usual Fresnel formulas; the results are tabulated. To check the validity of the calculations and accuracy of the results, the absorption coefficients of some of the coatings for the same characteristic wavelengths were measured directly by the transmission method. The results are consistent, but the direct absorption values are systematically higher than the values deduced from the reflection curves. A similar divergence was obtained for copper layers by L.G.Parratt (Phys.Rev.,95,359, 1954), who attributed it to decrease in density of the substance with approach to the surface; this is also assumed to be the reason for the divergences observed in the present case. The results are discussed briefly in a final section. Originart. 7 formulas, 10 figures and 3 tables.

-2/81

Card .

ACCESSION NR: AP4038780

\$/0048/64/028/005/0866/0871

AUTHOR: Lukirskiy, A.P.; Savinov, Ye.P.; Bry*tov, I.A.; Shepelev, Yu.F.

TITLE: Efficiency of secondary electron multipliers with Au, LiF, MgF₂, SrF₂, BeO, KCl and CsI photocathodes in the 23.6 to 113 Angstrom region Report, Seventh Conference on X-Ray Spectroscopy held in Yerevan 23 Sep to 1 Oct 19637

SOURCE: AN SSSR. Izvestiya. Seriya fizicheskaya, v.28, no.5, 1964, 866-871

TOPIC TAGS: x-ray detection, radiation detector, electron multiplier, photocathode, photocathode efficiency

ABSTRACT: The quantum efficiency of Au, LiF, MgF2, SrF2, BeO, KCl and CsI photocathodes were measured in secondary electron multipliers throughout the ultrasoft x-ray region from 23.6 to 113 A and at grazing angles from 40 to 400 (angles of incidence from 500 to 860). An absolute accuracy of 15% is claimed for the measurements, and the data presented (except those for the BeO photocathodes, which were not reproducible) are recommended for absolute x-ray intensity measurements to this accuracy. The gold photocathodes were included for comparison, and the other materials were selected as the most efficient photocathodes that are not poisoned by air. The

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ACCESSION NR: AP4038780

Lif, MgF2, SrF2, KC1 and CsI photocathodes were vacuum deposited on Al films on glass. The BeO photocathodes were prepared by oxidizing a film of Be, vacuum deposited on W or Mo. The BeO photocathodes prepared in this way were not reproducible, however, and only the data for the most efficient BeO photocathode are given. The thickness of the photocathodes was determined interferometrically. The thickness of the Au cathode was 1000 A; that of the CsI cathode, 5500 A; and the remaining photocathodes were 2500 A thick. These thicknesses are greater than the depth from which the photoelectrons can emerge. Tungsten bremsstrahlung was employed for the measurements. The x-ray intensity was measured with an alcohol-argon Geiger counter and a methane proportional counter. The efficiencies of the counters were determined from absorption measurements, data of A.P.Lukirskiy and T.M.Zimkina (Izv.AN SSSR, Ser.fiz.27,104,1963) being employed for the alcohol-argon counter. Curves are presented showing the quantum efficiency of each photocathode at several selected wavelengths as a function of the grazing angle. Most of these curves have a rather sharp maximum at some small grazing angle and are otherwise smooth. Curves are also presented showing the quantum efficiency of each photocathode at 20° grazing angle as a function of the wavelength. These curves show marked fine structure near the absorption edges of the cathode materials but are reasonably smooth between. It is recommended that for any specific application a photocathode be selected for which the

Card 2/3

ACCESSION NR: AP4038780

fine structure lies outside the wavelength region of interest. Orig.art.has: 5 figures and 1 table.

ASSOCIATION: Fizicheskiy fakul'tet Leningradskogo gosudarstvennogo universiteta (Physics Department, Leningrad State University)

SUBMITTED: 00

DATE ACQ: 12Jun64

ENCL: 00

SUB CODE: OP,EC

NR REF SOV: 010

OTHER: COO

Card 3/3

L 61650-65 $E_{N}T(m)/T/E_{N}P(t)/E_{N}P(b)/E_{N}A(c)$ IJP(c)JD/JG ACCESSION NR: AP5015594 UR/0062/65/000/005/0925/0926 22 548.73+546.65 2/ AUTHOR: Smolin, Yu. I.; Shepelev, Yu. F.; Bondar', I. A.; Toropov, N. A. B TITLE: Concerning a certain structural type in the series of rare earth oxyorthosilicates SOURCE: AN SSSR. Izvestiya. Seriya khimicheskaya, no. 5, 1965, 925-926 TOPIC TAGS: rare earth compound, dysprosium compound, holmium compound, ytterbium compound, erbium compound, thulium compound, lutetium compound, rare earth exyorthosilicate, latticeparameter ABSTRACT: The article reports on certain results of an x-ray analysis of the oxyorthosilicates of dysprosium, holmium, erbium, and ytterbium (Ln,0, SiO,). Powder matterns obtained with Cuk radiation showed that the oxyorthosilicates were comslotely isostructural. The unit lattice parameters and space group of the single rustal YB_0; SiO, were determined, and the crystal was found to be orthorhombic.

The lattic parameters a, b, and c of the exporthosilicates of Dy, Ho, Er, Tm, Yb, and he were determined and are tabulated. It was found that the exporthosilicates in T. and T. apparently also belong to the structural type of the other compounds.

Card 1/2

L 61650-65

ACCESSION NR: AP5015594

"A detailed evaluation of the results will be published after a complete determination of the structure of Yb203. SiO2, which is now being investigated."

Orig. art. has: 1 table.

ASSOCIATION: Institut khimii silikatov im. I. V. Grebenshchikova Akademii nauk

SSSR (Institute of Silicate Chemistry, Academy of Sciences, SSSR)

SUBMITTED: 22Aug64

ENCL: 00

SUB CODE: IC

NO REF SOV: 001

: i :

2/2

Card

OTHER: COO

BONDAR', I.A.; TENISHEVA, T.F.; SHEPELEV, Yu.F.; TOROPOV, N.A.

New rare-earth diorthogilicate KgEu (Signg). Dokl. AN SSSR 160 no.5:1069-1071 F 165. (MIPA 18:2)

- 1. Institut khimii silikatov im. I.V. Grebenshchikova AN SSSR.
- 2. Chlen-korrespondent AN SSSR (for Toropov).

L 22988-66 EWI(d)/FBD/FSS-2/EWI(1)/EWP(m)/EEC(k)-2/EWA(d) IJP(c) AST/JKT/GW/BC

ACC NR. AP6012826 SOURCE CODE: UR/0293/66/004/002/0203/0207

AUTHOR: Boguslavskiy, I. A.; Ivashchenko, O. I.; Shepelev, Yu. G.

ORG: none

TITLE: On control of a space ship with low-thrust engines in acceleration

with no information on the current velocity vector

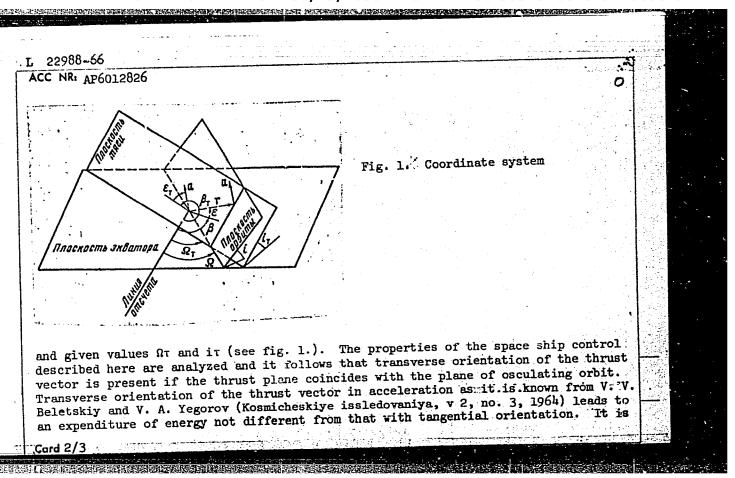
SOURCE: Kosmicheskiye issledovaniya, v. 4, no. 2, 1966, 203-207

TOPIC TAGS: astronautics, celestial mechanics, artificial satellite orbit, orbit control, orbit program, satellite control, thrust vector control

ABSTRACT: A possible method of control of a space ship with low-thrust engines in the acceleration phase is described when no information on the velocity vector is available. This method consists in the realization of 1) a system which can determine the real angles of thrust-vector orientation with respect to a planeto-centric coordinate system, and 2) a vertical reference which provides the orientation of the planetocentric radius-vector of the space ship in the same coordinate system at any time. Thus, it is possible to stabilize the plane of an osculating orbit with respect, for example, to a planetocentric coordinate system in a position given by the latitude of the ascending node $\Omega\tau$ and the inclination of the orbit it in the sense that it diminishes the discrepancy between the real Ω and i

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shown that the selected control law makes it possible to stabilize the orbit in space with $\Omega\tau$ and it constant. Moreover, when the planetary gravity field differs from the central field, At and it should be certain functions of time in order to make more effective use of energy. Indeed, the expenditure of energy would be used effectively if the total thrust is used for augmentation of the radius vector of the space ship, which is realized when the thrust vector is situated in the plane of an osculating orbit. An expression for the time dependence of $\Omega\tau$ is derived, assuming that it is constant. Thus, if the function $\Omega \tau$ (t) is given with sufficient accuracy by the programmer of the control system and $\Omega\tau$ and it are sufficiently close to values of Ω and i at the start of acceleration, the orientation of the thrust vector during acceleration will practically coincide with transverse orientation and the energy expenditures of the space ship in escaping from the earth's influence will practically coincide in both three-dimensional and plane cases. The possibility and difficulty of realizing purely programmed control are disscussed. Orig. art. has: 1 [AB] figure and 14 formulas.

SUB CODE: 22/ SUBM DATE: 23Apr64/ ORIG REF: 003/ ATD PRESS: 4238

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ACCESSION NR: AP4014635

5/0106/64/000/001/0067/0071

AUTHOR: Shepelev, Yu. V.

TITLE: Frequency spectrum of a double-FM signal

SOURCE: Elektrosvyaz', no. 1, 1964, 67-71

TOPIC TAGS: signal frequency spectrum, double FM signal, double FM signal

spectrum, radiotelemeter, double FM radiotelemeter

ABSTRACT: Radiocontrol and radiotelemeter systems use special, often rather complicated methods of modulation, including the subcarrier type. In frequency-division radiotelemeter lines, AM-FM and FM-FM modulation methods are widely used. In the present short article, a formula for an FM-FM signal spectrum under conditions of harmonic-voltage modulation is developed. Also, a connection between the FM-FM spectrum width and modulation indices is established. Orig. art. has: 15 formulas.

ASSOCIATION: none

SUBMITTED: 30Jan63

DATE ACQ: 14Feb64

ENCL: 00

SUB CODE: CG, IE

NO REF SOV: 004

OTHER: 001

Card 1/1

ACCESSION NR: AP4039951

s/0191/64/000/006/0056/0059

AUTHOR: Chernobay, A. V.; Shepeleva, A. I.

TITIE: Spectrophotometric analysis of acenaphthylene copolymers

SOURCE: Plasticheskiye massy*, no. 6, 1964, 56-59

TOPIC TAGS: accnaphthylene, acenaphthylene styrene copolymer, acenaphthylene methylmethacrylate copolymer, spectrophotometric analysis

ABSTRACT: This relates to an investigation into the possibility of spectrophotometrically analysing acenaphthylene copolymers with styrene or methylmethacrylate.
Copolymerization was conducted in heat resistant ampoules under nitrogen atmosphere,
using 0.1% benzoyl peroxide. Dioxane solutions were used for the analyses on
spectrophotometer SF-4. The spectra of the monomers, the corresponding polymers,
and the copolymers are included. The composition of the copolymers from the
adsorption spectra was calculated by the formula for binary mixtures of components
in solution:

where S is the content of the determined component.

 $8 = \frac{k_1 - k_2}{k_1 - k_2} \cdot 100$

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of the copolymer and	l its con	monents.	• A.C	ompariso	a of the	calcula	ted co	mposit:	lon		
with the composition The spectra showed t	of the	initial	mixtu	re of mo	nomers ga	ve sati	sfacto	ry resi	ults.	1	
rne spectra showed pacrylate are formed	during h	igh deg	rees o	f monome	r convers	ions.	Orig.	art. h	BS:		
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